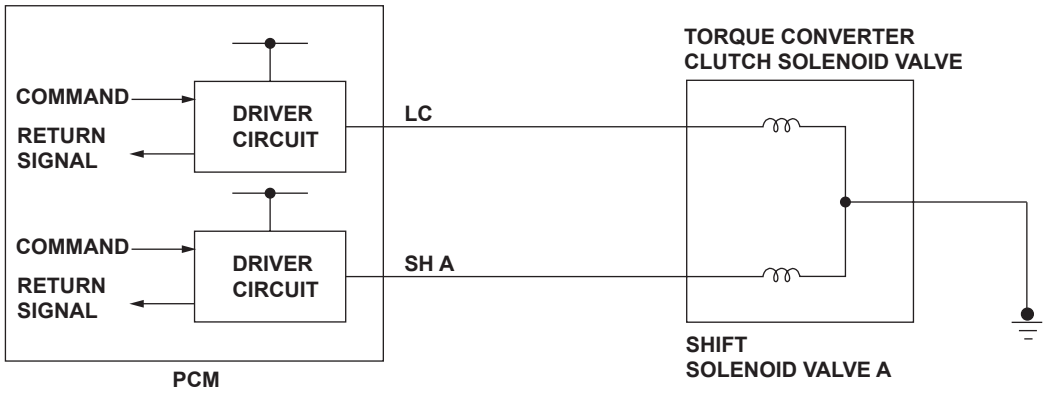
Advanced Diagnostics

DTC P0753: Problem in Shift Solenoid Valve A Circuit



P0753-9802

Shift solenoid valve driving signal combination table

Shift solenoid valve / Gear position	Shift solenoid valve A	Shift solenoid valve B	Shift solenoid valve C
1st	OFF	ON	ON
1st - 2nd	ON	ON	ON
2nd	ON	ON	OFF
2nd - 3rd	ON	OFF	OFF
3rd	ON	OFF	ON
3rd - 4th	OFF	OFF	ON
4th	OFF	OFF	OFF

General Description

When shift solenoid valves A, B, and C are turned ON, the hydraulic pressure circuit opens. The hydraulic pressure circuit supplies/discharges hydraulic pressure to/from each clutch according to the combination of the ON/OFF status of those valves and the shift valves. The powertrain control module (PCM) commands the driver circuit to turn on the shift solenoid valve. The circuit diagnoses malfunctions such as a circuit short or open, and sends back a return signal during the PCM's command. Judging from the signals, the PCM detects a malfunction and stores a DTC.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	1 second
DTC Type	One drive cycle, MIL ON, D4 indicator blinks

Enable Conditions

Condition	
No active DTCs	Shift solenoid valves A, B, and C, Torque converter clutch solenoid valve, A/T clutch pressure control solenoid valves A and B

Malfunction Threshold

The return signal during the PCM's output command is not appropriate for at least 1 second.

Driving Pattern

Start the engine, and drive the vehicle so it shifts from 1st through 3rd in D4 position.

- If you have difficulty duplicating the DTC, retest after turning off electrical components such as the audio system and the A/C.
- Drive the vehicle in this manner only if the traffic regulations and ambient conditions allow.

Diagnosis Details

Conditions for illuminating the MIL
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored.

Conditions for clearing the MIL
The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.